Operating Guide | Warranty

Model Number | L17W36DVD | **LCD TV**

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Warning

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user’s authority to operate this product.

COMPLIANCE:

The responsible party for this product’s compliance is:
Zenith Electronics Corporation
2000 Millbrook Drive
Lincolnshire, Il 60069, USA
Phone: 1-847-941-8000

Safety Instructions

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this manual can help you get many years of enjoyment and safe operation that are built into your new product.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read Instructions
All the safety and operating instructions should be read before the product is operated.

2. Follow Instructions
All operating and use instructions should be followed.

3. Retain Instructions
The safety and operating instructions should be retained for future reference.

4. Heed Warnings
All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture
Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.

7. Accessories, Carts, and Stands
Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

PORTABLE CART WARNING

9. Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

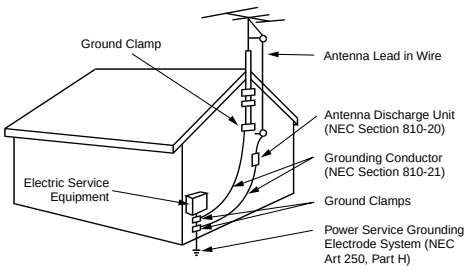
12. Power-Cord Polarization
This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13. Power-Cord Protection
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Safety Instructions continued

14. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions


Ground Clamp
Antenna Lead in Wire
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductor (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art 250, Part H)

NEC - National Electrical Code

15. Lightning
For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

16. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. If the product exhibits a distinct change in performance.

21. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

23. Wall or Ceiling Mounting
The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product.

24. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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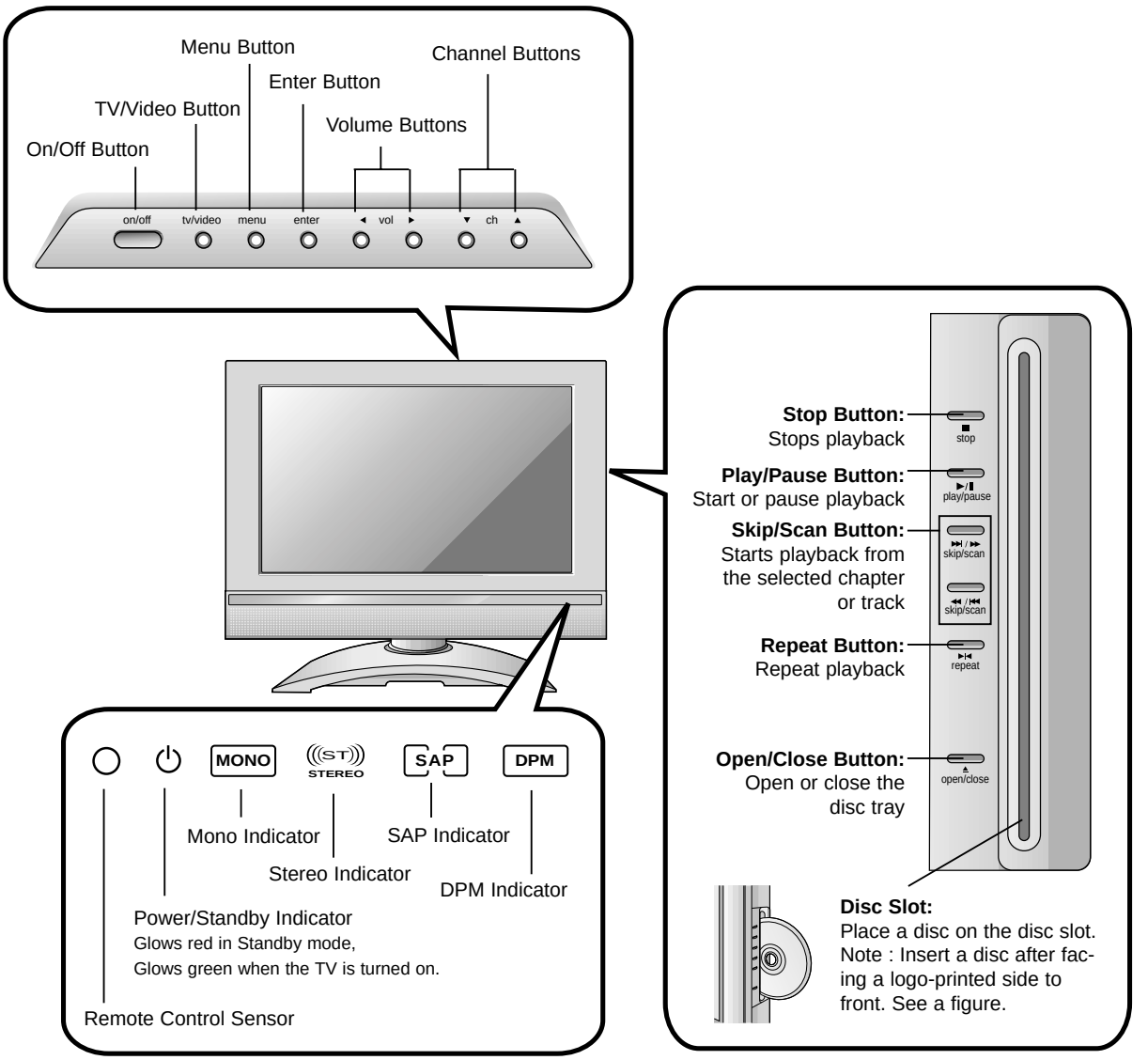
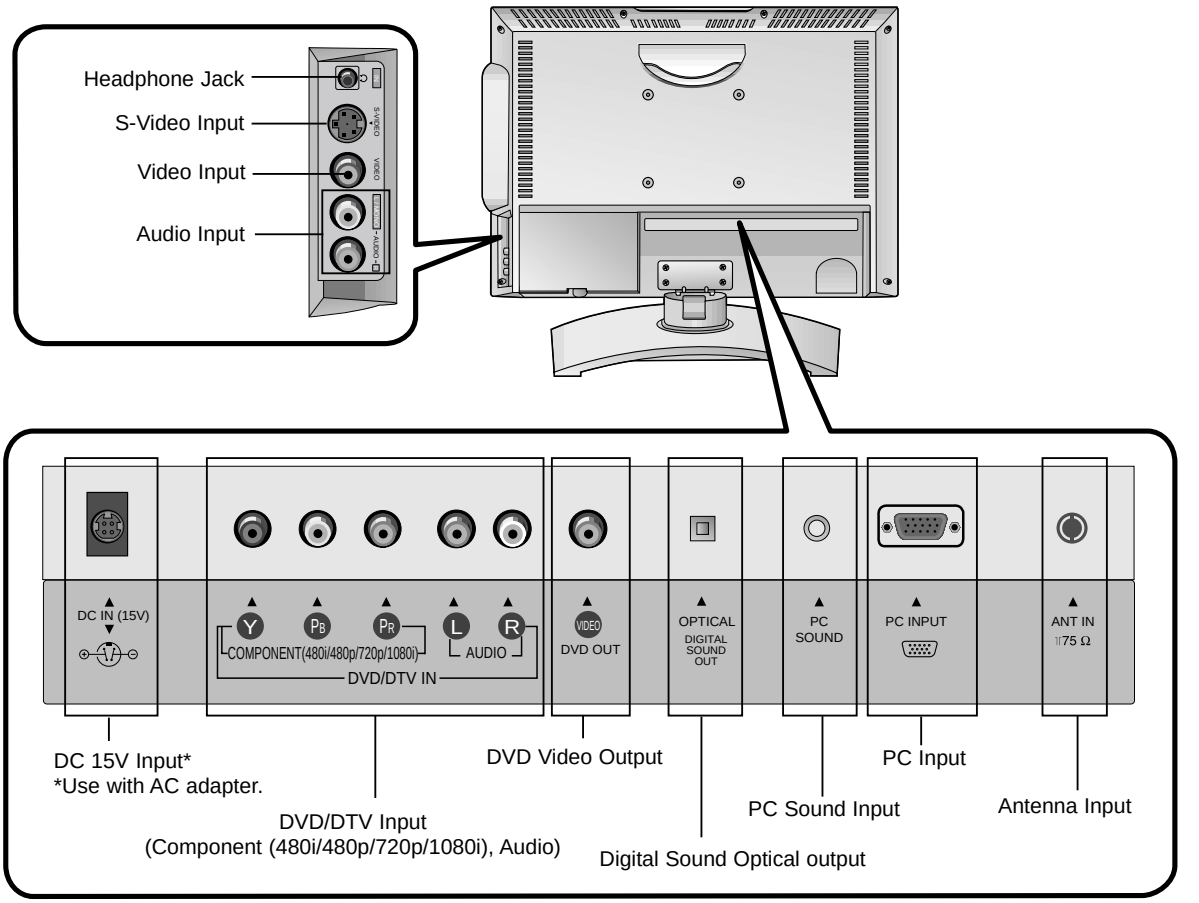
After reading this manual, keep it handy for future reference.

Product Overview

Controls



Connection Options



Remote Control Key Functions

- When using the remote control, aim it at the remote control sensor on the TV.

POWER
Switches the TV between ON and STANDBY.

OPEN/CLOSE
Opens or closes the disc slot.

MUTE
Use to turn the sound on or off temporarily.

PIP
Selects PIP or Double window mode.

PIP CH ▼
Tunes to next lower PIP channel.

PIP SWAP
Exchanges the sub/main images.

MENU
Displays the main menu on the screen.

ENTER
CH ▲ / ▼ (Channel button)
Selects available channels found with EZ scan.
VOL ◄ / ► (Volume button)
Decreases/increases the sound level.

NUMBER buttons

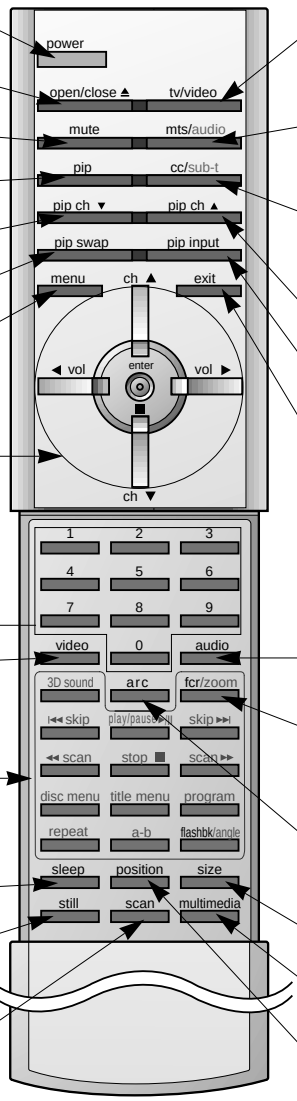
VIDEO
Selects a factory preset picture according to the room.

DVD BUTTON
Controls the DVD player. For further details, see the 'DVD Operation' section.

SLEEP
Sets the Sleep Timer.

STILL
Freezes the currently-viewed picture. Sub picture is frozen in PIP/Twin picture mode.

SCAN
(Refer to p.29)



TV/VIDEO
Selects: **TV**, **Video**, **S-Video**, **DVD**, **Component**, or **RGB-PC** mode.

MTS/AUDIO
Selects MTS sound: Mono, Stereo, or SAP.
Changes the AUDIO during DVD playback.

CC/SUB-T
Selects closed caption options: Off, EZ Mute, or On.
Changes the subtitle language during DVD playback.

PIP CH ▲
Tunes to next higher PIP channel.

PIP INPUT
Selects the input source for the sub picture.

EXIT
Clears all on-screen displays and returns to TV viewing from any menu.

AUDIO
Selects the sound appropriate for the program's character.

FCR/ZOOM
Press this button to return to the last channel you were watching.
Changes the picture size during DVD playback.

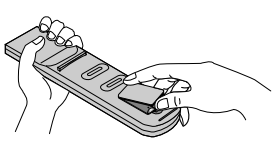
ARC
Changes the aspect ratio.

SIZE
Changes the sub picture size.

MULTIMEDIA
Selects: **TV**, **DVD**, **Component**, or **RGB-PC** mode.

POSITION
Changes the sub picture position.

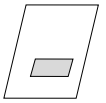
Installing Batteries



- Open the battery compartment cover on the back side and insert the batteries with correct polarity.
- Install two 1.5V batteries of AAA type. Don't mix used batteries with new batteries.

Installation

Accessories



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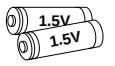
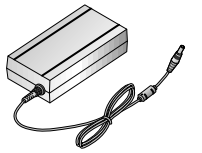
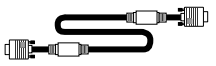


AAA Batteries



AC Adapter

Remote Control



PC Signal Cable

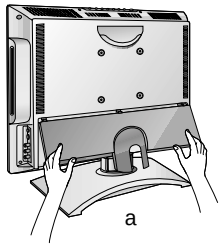
PC Sound Cable

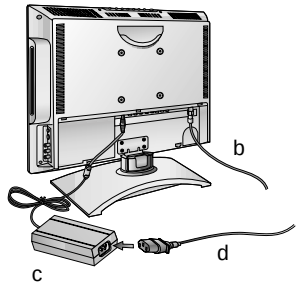
Power Cord

Tie Bands
- Arrange the wires with the tie bands.

Power Connections

* Caution: Please be sure to connect the TV to the AC power adapter before connecting the TV's power plug to a wall power outlet.
a. Remove the connection panel cover as shown below.
b. Connect the antenna cable to the antenna input port on the TV.
c. Connect the AC adapter plug to the power input jack on the TV.
d. Connect the power cord to the AC adapter first, then plug the power cord into the wall power outlet.
e. Reinstall the connection panel cover.



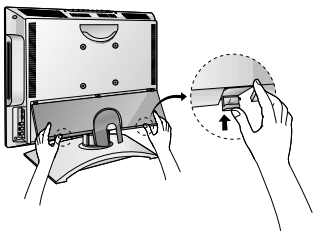


NOTES
a. If the TV feels cold to the touch, there may be a small “flicker” when it is turned on. This is normal, there is nothing wrong with TV.
b. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
c. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

Installation Instructions

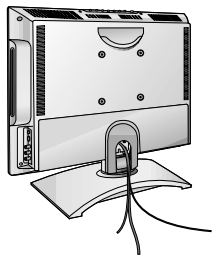
Rear A/V Cover

* The connection panel is hidden behind the A/V cover.
a. Remove the cover.
b. Install wires as necessary.
c. Reinstall the cover. Position the A/V cover with the TV back panel, tilt it back as shown.
d. Align the holes on the TV back panel with the two tabs on the rear A/V cover and insert.
e. Close cover.



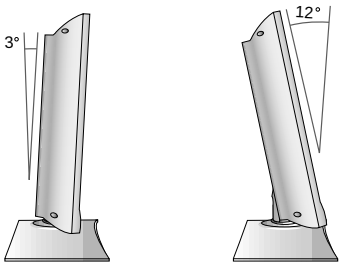
Wire Holders

- Thread, then pull the wires through the hole on the TV stand.



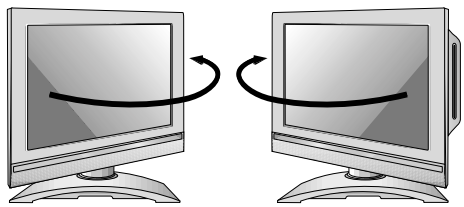
Adjusting the TV Viewing Angle

- You can adjust the vertical viewing angle of the TV between 3° and 12°.



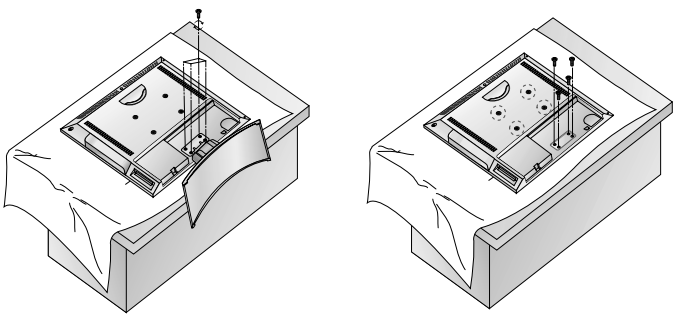
Swivel Stand

- The TV can be conveniently swiveled on its stand 30° to the left or right to provide the optimum viewing angle.



Installation on the Wall

- An optional wall mount is available for this TV, see your dealer.
For installation, follow the instructions provide with the optional wall mount.



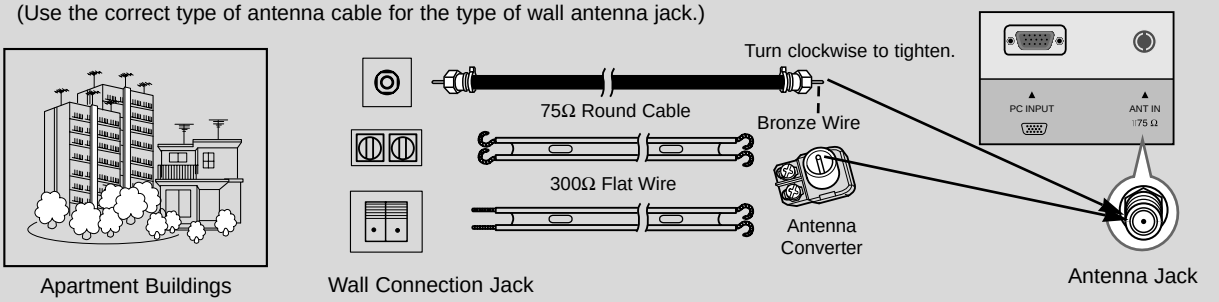
External Equipment Connections

Antenna Connection

- For optimum picture quality, adjust antenna direction.

Connecting to an Inside Antenna Setup

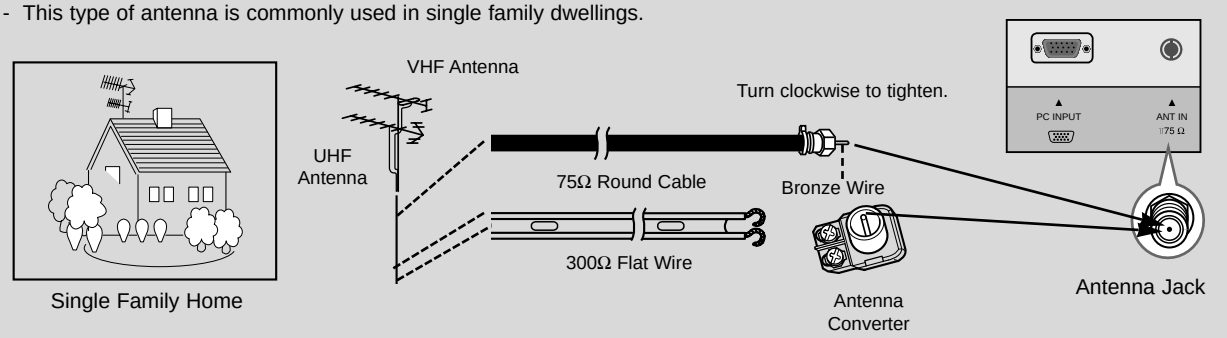
- Typical wall antenna jack used in apartment buildings, connect the antenna cable as shown below. (Use the correct type of antenna cable for the type of wall antenna jack.)



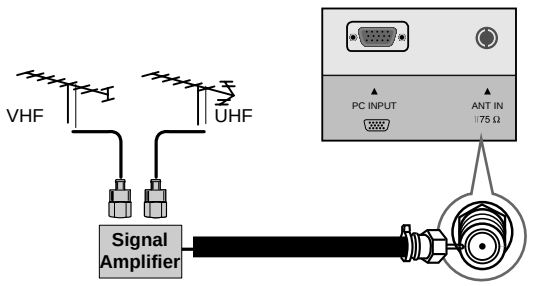
- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- If using 75Ω round cable, do not bend the bronze wire. It may cause poor picture quality.

Connecting to an Outside Antenna Setup

- This type of antenna is commonly used in single family dwellings.



- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



External Equipment Connections Continued

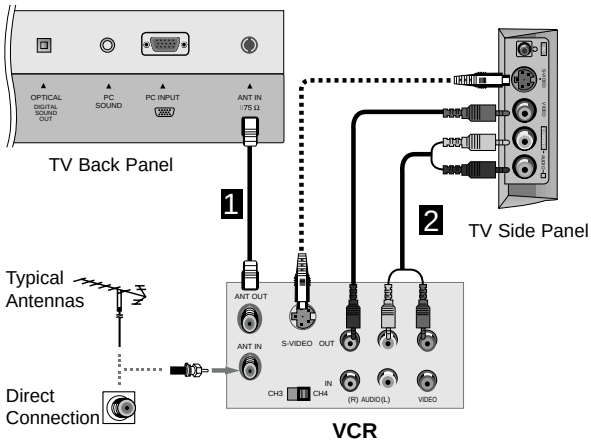
VCR Setup

Connection 1

Set VCR switch to 3 or 4 and then tune TV to the same channel number.

Connection 2

1. Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. When connecting the TV to a VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Use the **tv/video** button on the remote control to select **Video**. (If connected to S-VIDEO on side panel, select the **S-Video** external input source.)



Cable TV Setup

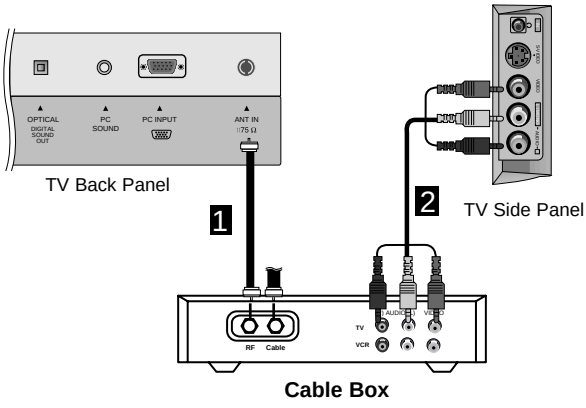
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programming.
- For further cable TV information, contact a local cable service provider.

Connection 1

1. Select 3 or 4 with channel switch on cable box.
2. Tune the TV channel to the same selected output channel of cable box.
3. Select channels at the cable box or with the cable box remote control.

Connection 2

1. Connect the audio/video output jacks on Cable Box to the corresponding input jacks on the TV. When connecting the TV to Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Use the **tv/video** button on the remote control to select **Video**.
3. Select channels with the cable box remote control.



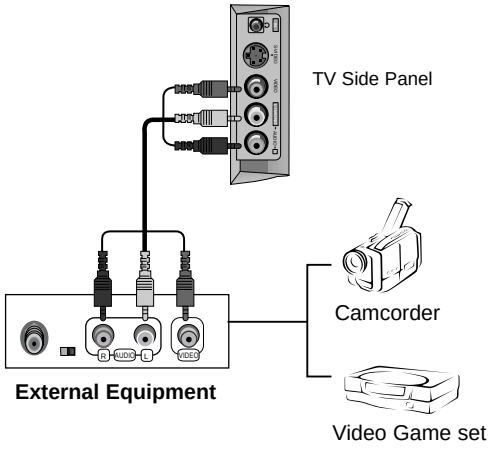
External A/V Source Setup

Connections

Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV. When connecting the TV to external A/V equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

Viewing Setup

1. Turn on the external A/V equipment.
2. Use the **tv/video** button on the remote control to select **Video**.
3. Operate the corresponding external equipment. Refer to external equipment operating guide.



DVD Setup

- This TV can play a DVD without other DVD player. However, if you do watch a DVD from other DVD player, refer to the figure as shown right.

Connections

Connect the DVD video outputs to the COMPONENT (Y, P_B, P_R) jacks and connect the DVD audio outputs to the AUDIO jacks.

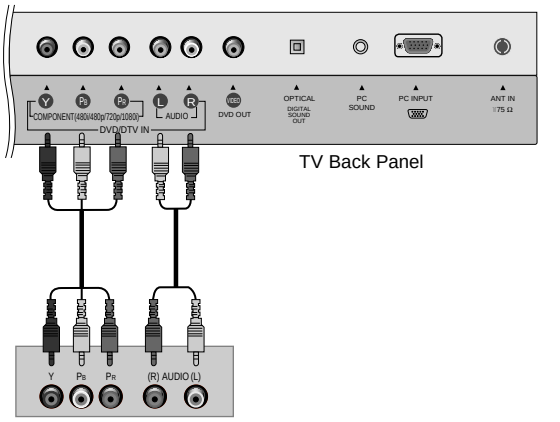
Viewing Setup

1. Turn on the DVD player, insert a DVD.
2. Use the **tv/video** or **multimedia** button on the remote control to select **Component**.
3. Refer to the DVD player's manual for operating instructions.

- **Component Input ports**
  To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports of the TV	Y	P_B	P_R

Video output ports of DVD player			
	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P_B	P_R



TV Back Panel

DVD

DTV Setup

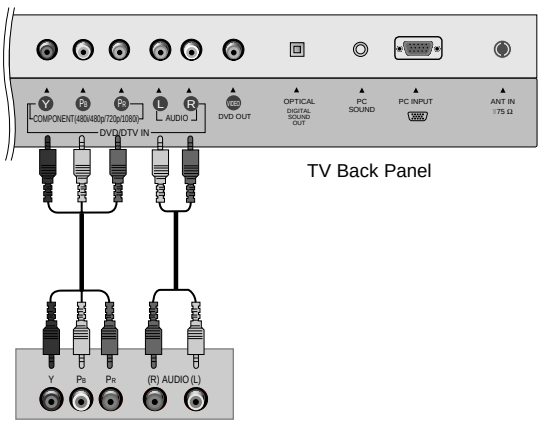
- To watch digitally broadcast programs, purchase and connect a digital set-top box.

Connections

Connect the digital set-top box video outputs to the COMPONENT (Y, P_B, P_R) jacks and connect the digital set-top box audio outputs to the AUDIO jacks.

Viewing Setup

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use the **tv/video** or **multimedia** button on the remote control to select **Component**.

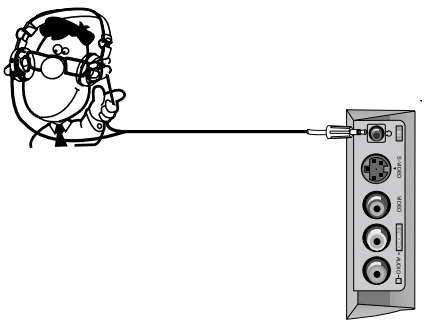


TV Back Panel

DTV Receiver (Set-top Box)

Using Headphones

- Plug headphones in to H/P jack as shown.
- Adjust sound level to a headphone using the volume (◄, ►) buttons. While you are listening to sound through a headphone(s), TV speakers will not be heard.

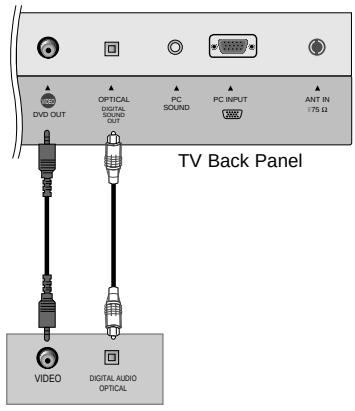


DVD Output Setup

The TV has a special signal output capability which allows you to hook up a second TV or monitor.

Connect the second TV or monitor to the TV' DVD OUTPUT and OPTICAL DIGITAL SOUND OUT jack. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

Notes: • If your DVD has no optical digital audio input jack, it's impossible to use DVD sound output.
• Do not look into the optical output port. Looking at the laser beam may damage your vision.
• If your external audio equipment has a digital audio input optical port, you can connect it to your TV.



TV Back Panel

Second TV or Monitor

PC Setup

- After setup, be sure to select RGB-PC source on TV.

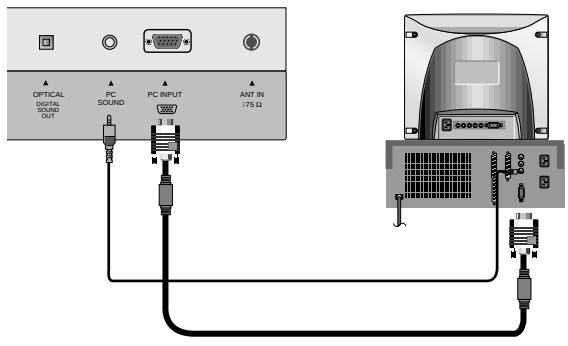
Connections

1. Set the monitor output resolution on the PC before connecting to the TV.
2. Connect the TV to the PC with the PC cable.
3. Connect the PC audio output to the TV's PC SOUND input.

Viewing Setup

1. Turn on the PC.
2. Use the **tv/video** or **multimedia** button on the remote control to select **RGB-PC**.

TV Back Panel



Monitor Display Specifications

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)	Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x480	31.4	60	832x624	49.7	75
	35	67	1024x768	48.3	60
	37.5	75		56.4	70
	43.2	85		60	75
800x600	35.1	56		68.6	85
	37.8	60	1280x768	39.5	50
	48	72		47.6	60
	46.8	75			
	53.6	85			

NOTES

a. For optimum picture quality, use standard XGA (1024x768) computer output at a 60Hz refresh rate. Using other formats (VGA, SVGA, etc.) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using).

b. If the message "**Out of range**" appears on the screen, adjust the PC output to a format listed in the 'Monitor Display Specifications' chart above.

c. The synchronization input form for Horizontal and Vertical frequencies is separate.

DPM (Display Power Management) mode

If the PC goes to power saving mode, the monitor automatically switches to DPM mode.
If you don't use the PC cable provided, DPM mode may not work.

Operation

*** In this manual, the OSD (On Screen Dispaly) may be different from your TV's because it is just example to help the TV operation.**

TV Operation Overview

1. First, make all equipment connections. Plug the AC Adapter into the TV, then plug the AC Adapter into a power outlet. At this time, the TV switches to standby mode.
   • In standby mode, press the **power**, **ch** (▲,▼), **tv/video**, **multimedia** or **number** button on the remote control or **on/off**, **ch** (▲,▼), **tv/video** located on the TV to turn the TV on.
2. Select the viewing source by pressing **tv/video** or **multimedia** repeatedly.
   • Note: See page 16 if you have not used EZ Scan and auto programmed TV to receive channels in your local broadcast area.
3. After viewing, press the **power** button on the remote control or **on/off** located on the TV. The TV reverts to standby mode.

NOTE
• If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

Menu Language Selection

- The menus can be shown on the screen in the selected language. First select your language.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Special** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Language**.
3. Use the ◄ / ► button to select your desired language.
   From this point on, the on-screen menus will be shown in the language of your choice.
4. Press the **exit** button to save and return to TV viewing.

Channel Menu Options

Memorizing the Channels with EZ Scan

- For EZ scan to work, the programming source must be connected to the TV and the TV must be receiving programming signals either over-the-air or from a cable-type service provider.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Channel** menu.
2. Press the ► button and then use ▲ / ▼ button to select **EZ Scan**.
3. Press the ► button to begin the channel search.

   • Wait for auto program to complete the channel search cycle before choosing a channel. The TV scans for over-the-air channels and then channels provided by a cable service.

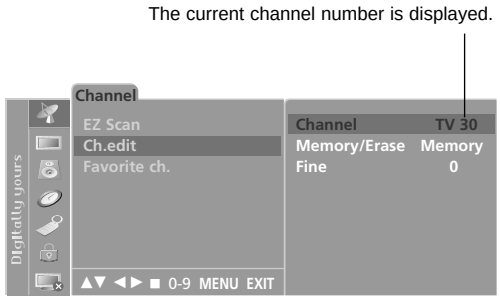
NOTES

• When the channel search is complete, use the ▲ / ▼ buttons to review the channels in memory.
• If you press the **enter** button while EZ Scan is searching, the function will stop and only channels found up to that time will remain in memory.
• EZ Scan function can only memorize the active channels that are being received at that time.

Add/Delete Channels with Ch.edit

- You can manually include or erase individual channels.

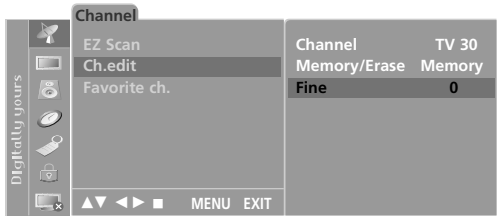
1. Press the **menu** button and then use ▲ / ▼ button to select the **Channel** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Ch.edit**.
3. Press the ► button and then use ◄ / ► button to select a channel you want to add to memory or erase.
4. Press the ▼ button and then use ◄ / ► button to select **Memory** (add) or **Erase** (delete).
6. Press the **exit** button to save and return to TV viewing. The current channel is added to Memory or Erased from the channel list.



Fine Tuning Adjustment

- Adjusts the picture's stability and appearance if it is poor.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Channel** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Ch.edit**.
3. Press the ► button and then use ▲ / ▼ button to select **Fine**.
4. Use the ◄ / ► button to adjust the picture to your preference.
5. Press the **exit** button to save and return to TV viewing.

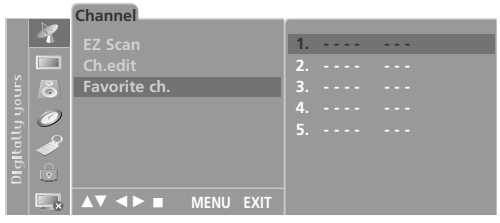


Favorite Channels Setup

- Favorite Channel lets you quickly tune in up to 5 channels of your choice without having to wait for the TV to scan through all the in-between channels.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Channel** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Favorite ch.**.
3. Press the ► button and then use ▲ / ▼ button to select the first favorite channel position.
4. Use the ◄ / ► button to set the desired channel number for first favorite channel.
5. Repeat steps 3 to 4 to memorize other channels.
6. Press the **enter** button to save.

   • To tune to a favorite channel, press the **fcr** (Favorite Channel Review) button repeatedly. The 5 favorite channels appear on the screen one-by-one.

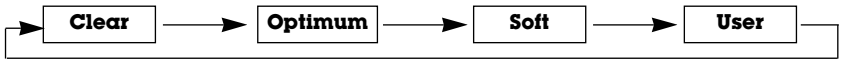


Picture Menu Options

EZ Video

- Adjusts the TV for the best picture appearance.

1. Press the **video** button repeatedly to select the picture appearance setup option as shown below.

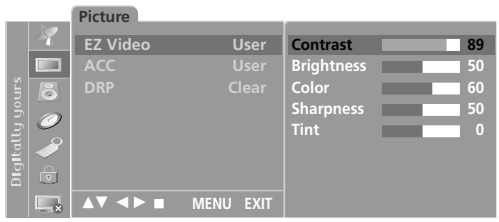


- You can also adjust **EZ Video** in the **Picture** menu.
- **Clear**, **Optimum** and **Soft** are preset for good picture quality at the factory and cannot be changed.

Manual Picture Control (**User** option)

- You can adjust picture contrast, brightness, color, sharpness, and tint to the levels you prefer.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Picture** menu.
2. Press the ► button and then use ▲ / ▼ button to select **EZ Video**
3. Press the **enter** button and then use ▲ / ▼ button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, **Tint**).
4. Use the ◄ / ► button to make appropriate adjustments.
   - Contrast, Brightness, Color, and Sharpness are adjustable from 0 to 100.
   - Tint is adjustable from Red 50 to Green 50.
5. Press the **exit** button to save and return to TV viewing.



Auto Color Control Adjustment

- To initialize values (reset to default settings), select the **Normal** option.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Picture** menu.
2. Press the ► button and then use ▲ / ▼ button to select **ACC** .
3. Use the ◄ / ► button to select either **Normal** (Default), **Warm** (Preset), **User** (Manual Adjustment) or **Cool** (Preset).
4. Press the **exit** button to save and return to TV viewing.

Picture Menu Options Continued

Manual Color Temperature Control (**User** option)

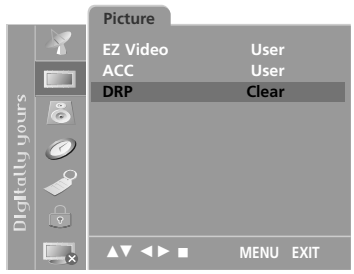
- You can adjust red, green, or blue to any color temperature you prefer.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Picture** menu.
2. Press the ► button and then use ▲ / ▼ button to select **ACC** .
3. Press the **enter** button and then use ▲ / ▼ button to select **Red**, **Green** or **Blue**.
4. Use the ◄ / ► button to make appropriate adjustments.
   • The adjustment range of **Red**, **Green**, and **Blue** is 0 ~100.
5. Press the **exit** button to save and return to TV viewing.

DRP (Digital Reality picture)

- Improves picture outline in dark areas.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Picture** menu.
2. Press the ► button and then use ▲ / ▼ button to select **DRP** .
3. Use the ◄ / ► button to select **Clear** or **Soft**.
4. Press the **exit** button to save and return to TV viewing.



Picture Format Setup

1. Press the **arc** button repeatedly to select the desired picture format.

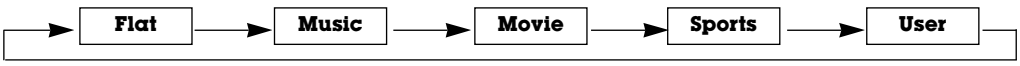
• Picture format Zoom is not available in Component or RGB-PC modes.

Sound Menu Options

EZ Audio

- The TV selects the appropriate sound option based on the program content; so can you enjoy the best sound without any special adjustment.

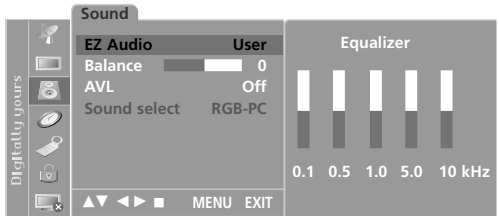
1. Use the **audio** button to select the appropriate sound setup as shown below.



• You can also adjust **EZ Audio** in the **Sound** menu.

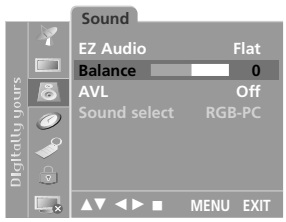
Equalizer Adjustments

1. Press the **menu** button and then use ▲ / ▼ button to select the **Sound** menu.
2. Press the ► button and then use ▲ / ▼ button to select **EZ Audio**.
3. Press the **enter** button and then use ◄ / ► button to select the band you want to adjust. Then, use ▲ / ▼ button to adjust the band level.
5. Press the **exit** button to save and return to TV viewing.



Sound Balance

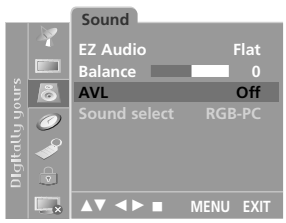
1. Press the **menu** button and then use ▲ / ▼ button to select the **Sound** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Balance**.
3. Use the ◄ / ► button to adjust the sound balance.
   • Balance is adjustable from Left 50 to Right 50.
4. Press the **exit** button to save and return to TV viewing.



AVL (Auto Volume Leveler)

- AVL maintains an equal volume level automatically even if the channel is changed.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Sound** menu.
2. Press the ► button and then use ▲ / ▼ button to select **AVL**.
3. Use the ◄ / ► button to to select **On** or **Off**.
4. Press the **exit** button to save and return to TV viewing.

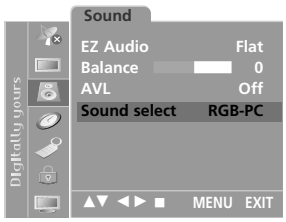


Sound Menu Options Continued

Sound source in PC mode

- Be sure to select the RGB-PC source and turn on the PIP before operation.

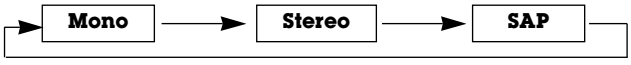
1. Press the **menu** button and then use ▲ / ▼ button to select the **Sound** menu.
2. Press the ► button and then use ▲ / ▼ button to choose **Sound select**.
3. Use the ◄ / ► button to select desired TV sound (**RGB-PC** or **PIP**).
4. Press the **exit** button to save and return to TV viewing.



Stereo/SAP Broadcasts Setup

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, if the broadcaster transmits an additional sound signal as well as the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers.

1. Press the **mts** button repeatedly.



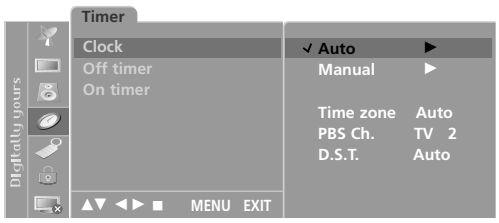
- Select mono sound mode if the signal is not clear or in poor signal reception areas.
- **Stereo**, **SAP** mode are available only if included on the broadcast signal.

Time Menu Options

Auto Clock Setup

- The time is set automatically from a PBS (Public Broadcasting Station) signal.
- The PBS channel signal includes information for the correct time and daylight saving time.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Timer** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Clock**.
3. Press the ► button and then use ▲ / ▼ button to select **Auto**.
4. Press the ► button and then use ▲ / ▼ button to select the time zone for your viewing area. Your choices are: **Auto**, **E**.**S**.**T**. (Eastern Standard Time), **C**.**S**.**T**. (Central Standard Time), **M**.**S**.**T**. (Mountain Standard Time), **P**.**S**.**T**. (Pacific Standard Time), **Alaska**, and **Hawaii**.

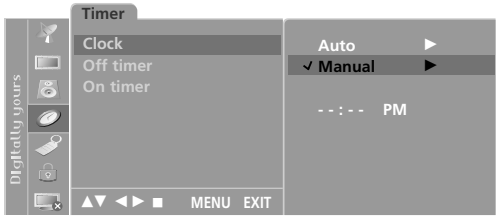


5. Press the ► button and then use ▲ / ▼ button to set a local PBS channel number.
6. Press the ► button and then use ▲ / ▼ button to set **D.S.T.** (Daylight Savings Time) **Auto**, **Off** or **On**, depending on whether or not your viewing area observes Daylight Savings Time.
7. Press the **exit** button to save and return to TV viewing.

Manual Clock Setup

- If the time on the clock is incorrect, reset the clock manually.

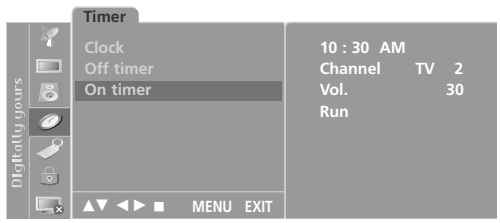
1. Press the **menu** button and then use ▲ / ▼ button to select the **Timer** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Clock**.
3. Press the ► button and then use ▲ / ▼ button to select **Manual**.
4. Press the ► button and then use ▲ / ▼ button to set the hour.
5. Press the ► button and then use ▲ / ▼ button to set the minute.
6. Press the **exit** button to save and return to TV viewing.



Time Menu Options Continued

On/Off Timer Setup

- Timer function operates only if current time is set.
- Off-Timer function overrides On-Timer function if they are set to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you don't press any button within 2 hours after turning on the TV with the On-Timer function, the TV will automatically revert to standby mode.



1. Press the **menu** button and then use ▲ / ▼ button to select the **Timer** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Off timer** or **On timer**.
3. Press the ► button and then use ▲ / ▼ button to set the hour.
4. Press the ► button and then use ▲ / ▼ button to set the minute.
5. **For On timer function only:**
   Press the ► button and then use ▲ / ▼ button to set the channel at turn-on.
   Then, press the ► button and then use ▲ / ▼ button to set the turn-on sound level.
6. Press the ► button and then use ▲ / ▼ button to select **Run** or **Hold**.
   • **Hold**: **Off timer**/**On timer** will not work.
   Run: **Off timer**/**On timer** are active.
7. Press the **exit** button to save and return to TV viewing.

Sleep Timer Setup

- The Sleep Timer turns the TV off at a preset time.

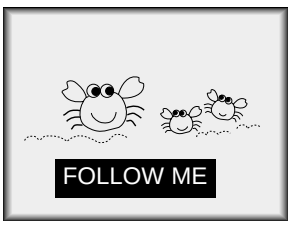
1. Press the **sleep** button repeatedly to select the number of minutes. First the zZ--- option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
2. When the number of minutes you want is displayed on the screen, press the **enter** button. The timer begins to count down from the number of minutes selected.
3. To check the remaining minutes before the TV turns off, press the **sleep** button once.
4. To cancel the Sleep Timer, press the **sleep** button repeatedly until zZ--- appears.

Special Menu Options

Closed Captions

Closed captioning is the process that converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

Using Closed Captions



Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It is possible to caption a live program by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English.
Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

- The picture at left shows a typical caption.

Caption Tips

- Not all TV broadcasts include closed caption signals.
- Sometimes TV stations broadcast four different caption signals on the same channel. Select from **From CC 1 to CC 4**, to choose a signal to view. **CC 1** is usually the signal with the captions, while another mode might show demonstration or programming information.
- Your TV might not receive caption signals normally under the following circumstances.

1. Poor reception conditions are encountered:

- **IGNITION:**
  Usually caused by interference from automobile ignition systems, and also neon lamps, electrical drills, or other electrical appliances. The picture may flutter, drift, suffer from black spots, or horizontal streaking.

- **GHOSTS:**
  Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception.

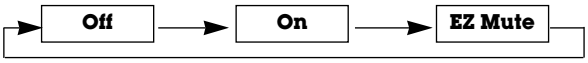
- **SNOW:**
  If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture.

2. An old, bad, or illegally recorded tape is being played.
3. Strong, random signals from a car or airplane interfere with the TV signal.
4. The signal from the antenna is weak.
5. The program wasn't captioned when it was produced, transmitted, or taped.

Special Menu Options Continued

Captions

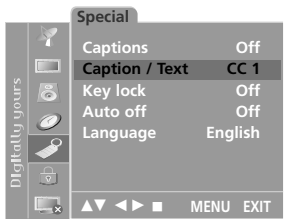
1. Use the **cc** button repeatedly to select Captions.



- You can also select **Captions** in the **Special** menu.
- **Ez Mute** shows the selected captions option (if available on program) when the TV sound is muted.
- Captions are not available in Component or RGB-PC modes.

Caption/Text

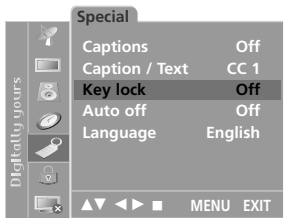
1. Press the **menu** button and then use ▲ / ▼ button to select the **Special** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Caption/Text**.
3. Use the ◄ / ► button to choose your caption preference. Your choices are: **CC1**, **CC2**, **CC3**, **CC4**, **Text 1**, **Text 2**, **Text3**, or **Text4**.
4. Press the **exit** button to save and return to TV viewing.



Key Lock

- The TV can be set up so that it can only be used with the remote control.
- This feature can prevent unauthorized viewing.

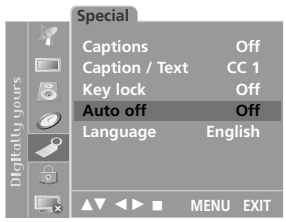
1. Press the **menu** button and then use ▲ / ▼ button to select the **Special** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Key lock**.
3. Use the ◄ / ► button to select **On** or **Off**.
4. Press the **exit** button to save and return to TV viewing.



Auto Off

- If Auto Off is active and there is no input signal, the TV switches to Standby mode automatically after 10 minutes.

1. Press the **menu** button and then use ▲ / ▼ button to select the **Special** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Auto off**.
3. Use the ◄ / ► button to select **On** or **Off**.
4. Press the **exit** button to save and return to TV viewing.



Lock Menu Options

Parental Control can be used to block specific channels, ratings and external auxiliary viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be shown without restriction. Viewing can be blocked by the type of program and by the individual categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be set specified:

1. Ratings and categories to be blocked.
2. A 4 digit password
3. Enabling the lock

V-Chip rating and categories

Rating guidelines are provided by the broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

For Movies previously shown in theaters :

Movie Ratings :

- Unblocked
- G and Above (general audience)
- PG and Above (parental guidance suggested)
- PG-13 and Above (13 years and older)
- R and above (restricted)
- NC-17 and Above (18 years and older)
- X (adult)

If you set PG-13 and Above : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.

For Television programs including made-for-TV movies:

General TV Ratings:

- Unblocked
- TV-G and Above (general audience) (individual categories do not apply)
- TV-PG and Above (parental guidance suggested)
- TV-14 and Above (14 years and older)
- TV-MA (mature audience)

Children TV Ratings:

- Unblocked
- TV-Y and Above (youth) (individual content categories do not apply)
- TV-Y7 (youth, 7 years and up)

Content Categories:

- Dialog - sexual dialogue (applies to TV-PG and Above, TV-14)
- Language - adult language (applies to TV-PG and Above, TV-14 and Above, TV-MA)
- Sex scenes - sexual situations (applies to TV-PG and Above, TV-14 and Above, TV-MA)
- Violence (applies to TV-PG and Above, TV-14 and Above, TV-MA)
- F Violence - fantasy violence (applies only to TV-Y7)

For Canadian English/French language rating system:

Canadian English language rating system:

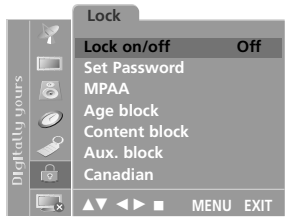
- Unblocked
- C and Above (Children)
- C8+ and Above (8 years and older)
- G and Above (General programming. Suitable for all audiences.)
- PG and Above (Parental guidance suggested)
- 14+ and Above (Viewer 14 years and older)
- 18+ (Adult programming)

Canadian French language rating system:

- Unblocked
- G and Above (General)
- 8 ans+ and Above (8 years and older)
- 13 ans+ and Above (13 years and older)
- 16 ans+ and Above (16 years and older)
- 18 ans+ (Adults only)

Lock Menu Options Continued

Lock Menu Setup



1. Press the **menu** button and then use ▲ / ▼ button to select the **Lock** menu. Press the ► button.

   • If **Lock** is already set, enter the password as requested.
   • The TV is set with the initial password “0-0-0-0”.

2. **Setting Lock on/off:**

   Use the ▲ / ▼ button to select **Lock on/off**.

   Use the ◄ / ► button to select **on** or **off**.

3. **Set password:**

   Use the ▲ / ▼ button to select **Set password**.

   Press the ► button and then enter a 4 digit password.
   Enter it again when requested.

4. Use the ▲ / ▼ button to select the type of blocking to be set .

5. Press the ► button and then use ▲ / ▼ button to select type of ratings to block .

   • **Age block**, **Content block**, and **Canadian** menus, also have sub menus. You will need to repeat steps 4 and 5 in their sub menus, to set the types of blocking and ratings.

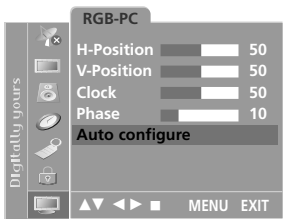
RGB-PC Source Menu Options

- Be sure to select the RGB-PC source before operation.

Auto Config. Adjustment

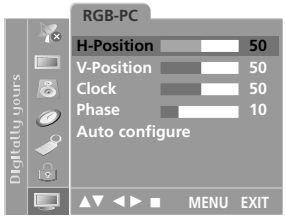
- Automatically adjusts picture position and minimizes image shaking.
- If the image is still not correct, your TV is functioning properly but needs further adjustment.

1. Press the **menu** button and then use ▲ / ▼ button to select the **RGB-PC** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Auto configure**.
3. Press the ► button to run Auto configure.
   - If the position of the image is still not correct, try Auto adjustment again.
4. If picture needs to be adjusted more after Auto adjustment in RGB-PC mode, you can adjust the **Clock** / **Phase**.



Horizontal / Vertical Position Adjustments

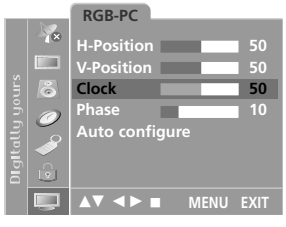
1. Press the **menu** button and then use ▲ / ▼ button to select the **RGB-PC** menu.
2. Press the ► button and then use ▲ / ▼ button to select **H-Position** / **V-Position**.
3. Use the ◄ / ► button to make adjustments.
   - The adjustment range is 0 ~ 100.
4. Press the **exit** button to save and return to TV viewing.



Phase / Clock Adjustments

- If the picture isn't clear after auto adjustment and especially if characters are still jittery, adjust the picture Phase manually.

1. Press the **menu** button and then use ▲ / ▼ button to select the **RGB-PC** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Clock** or **Phase**.
4. Use the ◄ / ► button to make appropriate adjustments.
   - The **Clock** adjustment range is 0 ~ 100.
   - The **Phase** adjustment range is 0 ~ 31.
   - Based on the input mode, the adjustment ranges for **Clock** / **Phase** may change.
4. Press the **exit** button to save and return to TV viewing.

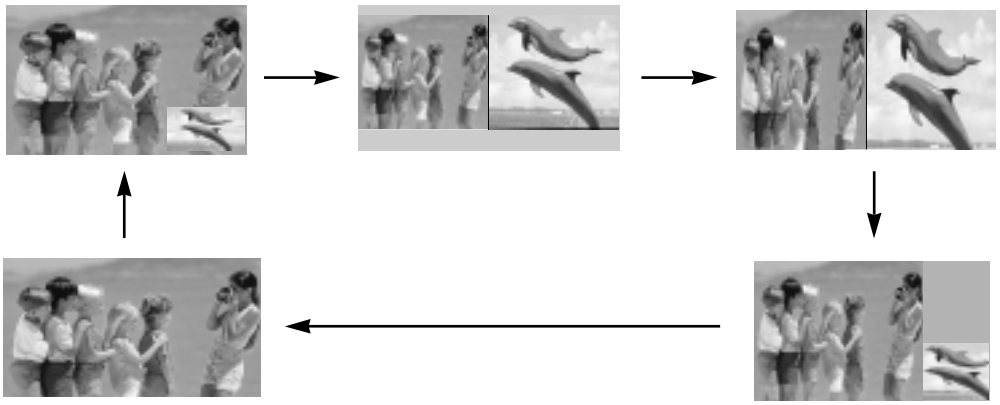


PIP (Picture-in-Picture) Feature

- PIP lets you view 2 different pictures (2 sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.
- Double Window splits the screen into 2 equal parts, allowing 2 picture sources to be shown side-by-side on the TV screen at the same time. Each source is given half the screen.
- PIP is not available if **Lock** is active (**On**) in **Lock** menu.

Watching PIP / Double Window

Press the **pip** button repeatedly to select one of the PIP options.



* You can only select this Double Window using RGB-PC for main picture source. With this setup, the main and sub pictures cannot be swapped.

TV Program Selection for PIP

Use the **pipch ▲ / pipch ▼** button to select a channel for the sub picture in PIP mode.

Using PIP Still Function

1. Press the **still** button in PIP mode.
   - In PIP mode, the sub picture is frozen.
2. To return to normal viewing, press the **still** button again.

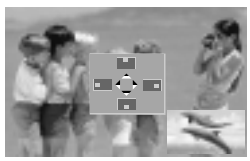
PIP Size

Press the **size** button and then use **◄ / ►** button to change the sub picture size.

Moving the PIP

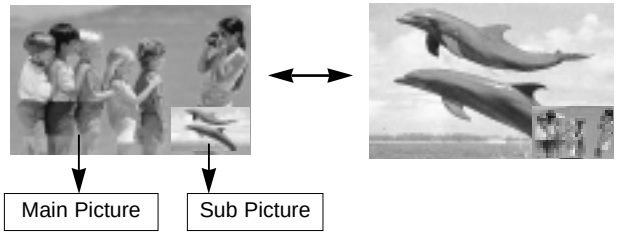
Press the **position** button in PIP mode.

Press the **▲ / ▼ / ◄ / ►** button repeatedly until desired position is achieved. The sub picture moves up/down/left/right.



Swapping the PIP

Press the **pip swap** button to switch the main and sub pictures.



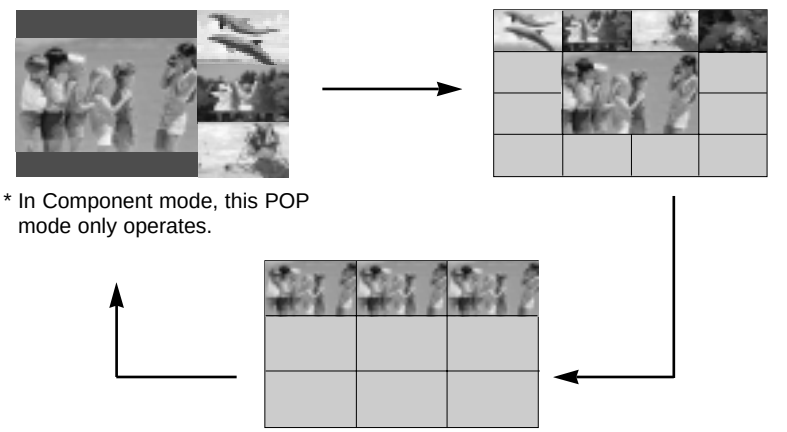
Selecting an Input Signal Source for PIP

Use the **pip input** button to select the input source for the sub picture.
Each press of **pip input** button changes the PIP source.

Main Picture Source	Available Sub Picture Sources
TV, Video, S-Video, or DVD	Component, or RGB-PC
Component, or RGB-PC	TV, Video, S-Video, or DVD

POP (Picture-of-Picture: Channel Scan)

- Use POP to search the programs of all the memorized channels one-by-one, while the main picture source remains the current channel.
- Press the **scan** button in PIP mode. Each press of **scan** button changes the screen as shown below.
- Note: Run EZ Scan channel search before using POP mode.



* In Component mode, this POP mode only operates.

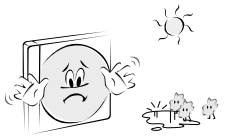
Notes on Discs

Handling Discs

- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.

Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in place subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing object on discs outside of their case may cause warping.

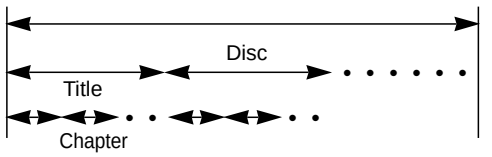


Cleaning Discs

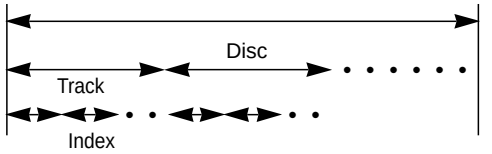
- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outward with a soft cloth. Always keep the disc clean.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. Doing so may damage the disc.

Disc Contents

DVD Video Disc Structure



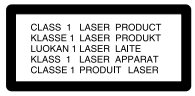
Video CD/Audio CD Structure



- **Title:** When two or more movies are recorded on a disc, the disc is divided into two or more parts. Each part is called a “TITLE”.
- **Chapter:** The titles can be subdivided into many sections. Each section is called a “CHAPTER”.
- **Track:** An audio CD can contain several items. These are assigned to the tracks.

Notes

- If an MP3 or JPEG file CD is created using an incorrect method, the player may not be able to recognize it. If this happens, try reburning another CD after setting up the disc writing parameters correctly on your PC.
- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.



CAUTION:
This Digital Video Disc Player employs a Laser System. To ensure proper use of this product, please read this owner’s manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure).
Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.
To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region “1” encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled “1” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

“DTS” and “DTS Digital Surround” are trademarks of Digital Theater System, Inc.

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DVD & VCD Operation

Basic Playback

1. Press the **power** button to turn the unit on.
2. Slide your chosen disc into the disc slot on the side panel. Be sure to face the top of the disc (with title etc.) toward the front of the screen. Playback starts.
3. Press the **open/close** button to remove the disc.

Stop Playback

1. Press the **stop** button to stop playback. At this time, DVD/VCD player stops playback temporarily and maintains the current playback position.
2. Press the **stop** button again to stop playback fully. (At this time, if you press **play/pause ▶/II** button, disc playback start from the beginning.)

Pause Playback (Still mode)

1. Press the **play/pause ▶/II** button during playback.
2. Press the **play/pause ▶/II** button again to return to normal playback.

Note :
a. Press the **play/pause ▶/II** button to return to DVD mode in TV, Video or RGB-PC mode.
b. If you have a disc problem during playback, remove the disc by pressing and holding down the **open/close** button on the side panel for more than 4 seconds.

Fast Forward/Backward

1. Press the **scan ▶▶** or **◀◀ scan** button during playback.
   Each time you press **scan ▶▶** or **◀◀ scan** button, the playback speed changes as shown.
   • **scan ▶▶**: ▶▶ 2x → ▶▶ 4x → ▶▶ 8x → ▶▶ 16x → ▶▶ 32x → 1x.
   • **◀◀ scan**: ◀◀ 2x → ◀◀ 4x → ◀◀ 8x → ◀◀ 16x → ◀◀ 32x → 1x.
2. Press the **play/pause ▶/II** button to resume normal playback.

Slow Forward/Backward

1. Press the **play/pause ▶/II** button and then press **scan ▶▶** or **◀◀ scan** button.
   Each time you press **scan ▶▶** or **◀◀ scan** button, the playback speed changes as shown:
   • **scan ▶▶**: ▶▶ 1/2 → ▶▶ 1/4 → ▶▶ 1/8 → ▶▶ 1/16 → 1x.
   • **◀◀ scan**: ◀◀ 1/2 → ◀◀ 1/4 → ◀◀ 1/8 → ◀◀ 1/16 → 1x. (DVD only)
2. Press the **play/pause ▶/II** button to resume normal playback.

Note : There is no sound during fast or slow playback for DVDs or Video CDs.

Skip a Chapter or a Track (DVD only)

1. Press the **skip ▶▶I** button or **I◀◀ skip** button to locate a desired chapter during playback. Each time you press the button, a chapter or track is skipped.

Frame by Frame Playback

1. Press the **skip ▶▶I** button or **I◀◀ skip** button in the still mode, one frame is displayed at a time. This function maybe operate differently depending on the disc type. (The backward frame function doesn't work in VCD disc.)

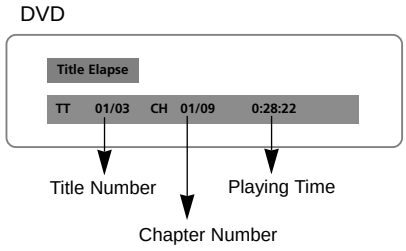
Note : "⊘" may appear on the TV screen during operation. A "⊘" means that the operation is not permitted by the unit or is not available on the disc.

OSD (On-Screen Display)

- You can display the playback status on TV screen as following; Title, Chapter number, Playing time.

1. Press the **enter** button during DVD playback. Title, Chapter information appears on screen. Each time you press the **enter** button, the OSD changes as follows.
   - DVD: Title Elapsed → Title Remain → Chapter Elapsed → Chapter Remain → Display off
   - VCD: Single Elapsed → Single Remain → Total Elapsed → Total Remain → Display off

Note: OSD display may different depending on a sort of DVD disc.



Selecting disc menu

1. Press the **disc menu** button during playback.
2. Use the ▲ / ▼, ◄ / ►, or **enter** button to select the desired menu option.

Selecting title menu

1. Press the **title menu** button during playback.
2. Use the ▲ / ▼, ◄ / ►, or **enter** button to select the desired item.

Note : The unit may not be able to select the disc or title menu depending on a sort of DVD disc.

Repeat playback

- You can play a specific title, chapter, track, or segment repeatedly.

1. Press the **repeat** button during playback.
   Each time you press the **repeat** button, the repeat mode changes as follows.
   - DVD : Chapter → Title → ALL → Repeat Off
   - VCD : Track → ALL → Repeat Off

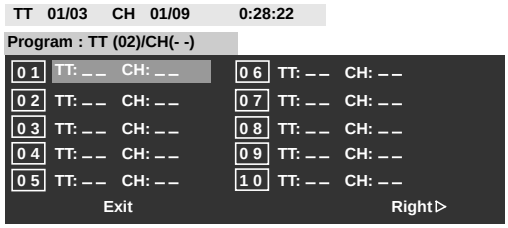
A-B repeat playback

- A-B repeat playback allows you to repeat material between two selected points.

1. Press the **a-b** button to select the start point during playback. " A" is displayed on TV screen and the starting point of your selected segment is set up.
2. Press the **a-b** button again to select the end point. " AB" is displayed on TV screen and the ending point is set up.
   Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
3. Repeatedly press the **a-b** button again to resume normal playback.
   "**Off**" appears on the screen.

Program playback

- You can arrange the order of playback for tracks on a disc.



1. Press the **program** button in the stop mode or during playback.
2. Use the ▲ / ▼ button to select the program position.
3. Use the NUMBER buttons to key in the desired Title and Track numbers. To program others, repeat Step steps 2 - 3.
4. Press the **program** button to resume normal playback.

Note: Depending on the disc, programmed playback may not be possible.

Selecting camera angles

- If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are currently watching.

1. Press the **angle** button during playback.
2. Repeatedly press the **angle** button to select the desired angle.

Notes: *:*

a. You can only change the angle for DVDs that provide multiple angles of scenes.
b. The angle function will not work on DVD video discs that do not contain scenes recorded at different angles.
c. The number of angles varies from disc to disc.

3D Sound

- Take advantage of any multichannel format from just two speakers without the need to add extra speakers or equipment.

1. Press the **3D sound** button during playback.
2. Each press of the **3D sound** button changes the sound display as indicated below:
   : Off → Concert → Living room → Hall → Bathroom → Arena.

Picture Size Zoom

- When enlarging or reducing the picture, it may become distorted.

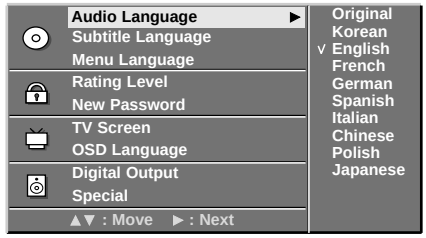
1. Press the **zoom** button during playback.
2. Each press of the **zoom** button changes the screen display as indicated below:
   : 2x, 3x, 4x, 1/2, 1/3, 1/4
3. Adjust the main picture position using the ▲ / ▼ / ◄ / ► buttons while in the enlarged picture mode.

DVD Menu Options

Selecting an audio language

- Select your preferred audio language. If an audio language is selected, the selected audio language is played whenever you start a new disc playback. (The disc must contain the selected language)
- You can also select another available audio language during playback with the **audio** button on the remote control during playback.

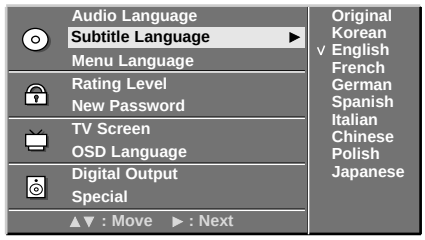
1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Audio Language**.
2. Press the ► button and then use ▲ / ▼ button to select your desired language.
3. Press the **enter** button.
4. Press the **exit** button to resume normal playback.



Selecting a subtitle language

- Select your preferred subtitle language. If a subtitle language is selected, the selected subtitle language is played whenever you start a new disc playback. (The disc must contain the selected language)
- You can also select another available subtitle language during playback with the **sub-t** button on the remote control during playback.

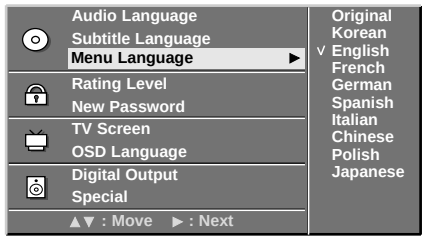
1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Subtitle Language**.
2. Press the ► button and then use ▲ / ▼ button to select your desired language.
3. Press the **enter** button.
4. Press the **exit** button to resume normal playback.



Disc menu language selection

- Select your preferred language for the disc menus and DVD messages. (The disc must contain the selected language)

1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Menu Language**.
2. Press the ► button and then use ▲ / ▼ button to select your desired language.
3. Press the **enter** button.
   The menus and on screen displays will appear in the selected language.
4. Press the **exit** button to resume normal playback.

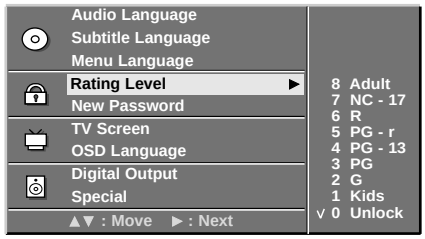


Parental Control Setup

- Use to block viewing of unsuitable discs.

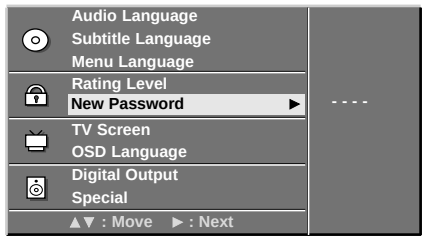
1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Rating Level**.
2. Press the ► button and then use number buttons to key in a 4-digit password.
   Be sure to remember the password!
   If you key in an incorrect number, press the **exit** button and start over.
3. Use the ▲ / ▼ button to set the restriction level from 0 to 8. Viewing becomes more restricted as the number increases.
   - 0: Unlock
   - 1: Kids
   - 2: G (General audience)
   - 3: PG (Parental guidance suggested)
   - 4: PG-13 (13 years and older)
   - 5: PG-r
   - 6: R (Restricted)
   - 7: NC-17 (18 years and older)
   - 8: Adult (Adults only)
4. Press the **exit** button to resume normal playback.

Note: If you ever forget your password, key in '7', '7', '7', '7' on the remote control.



Changing the password

1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Rating Level**.
2. Press the ► button and then use number buttons to key in a 4-digit password.
3. Press the ◄ button and then use the ▲ / ▼ button to select **New password**.
4. Press the ► button and then enter a 4 digit password.
   Enter it again when requested.
5. Press the **exit** button to resume normal playback.

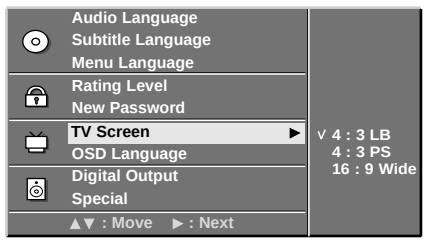


TV Screen

- You can watch TV in various picture formats.

1. Press the **menu** button twice and then use the ▲ / ▼ button to select **TV Screen**.
2. Press the ► button and then use ▲ / ▼ button to select **4 : 3 LB**, **4 : 3 PS**, or **16 : 9 Wide**.
3. Press the **enter** button.
4. Press the **exit** button to resume normal playback.

Note : Depending on the disc, the TV screen feature may not be available.



Letter Box (4:3 LB)

Pan & Scan (4:3 PS)

16:9 Wide

DVD Menu Options Continued

Disc OSD language selection

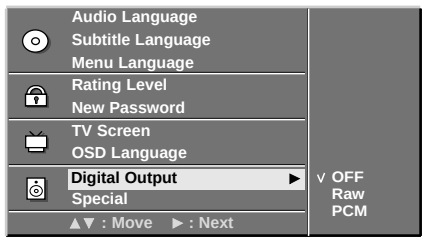
- The onscreen display can be shown on the screen in your specified language.

1. Press the **menu** button twice and then use the ▲ / ▼ button to select **OSD Language**.
2. Press the ► button and then use ▲ / ▼ button to select your desired language. All the on screen displays will appear in the selected language.
3. Press the **exit** button to resume normal playback.

Digital audio output

- You can select the output for SPDIF (Sony/Philips Digital Interface).

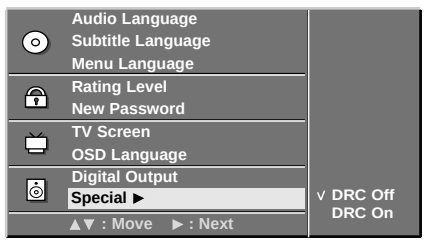
1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Digital Output**.
2. Press the ► button and then use ▲ / ▼ button to select **OFF**, **Raw** (Original SPDIF signal), or **PCM** (Pulse Code Modulation: Encodes SPDIF signal to PCM).
3. Press the **enter** button.
4. Press the **exit** button to resume normal playback.



DRC (Dynamic Range Compression)

- Confines the audio range to prevent excessively loud sound yet allows you to hear the low sounds clearly.

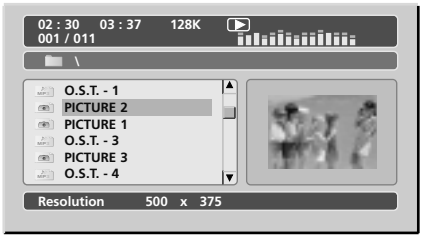
1. Press the **menu** button twice and then use the ▲ / ▼ button to select **Special**.
2. Press the ► button and then use ▲ / ▼ button to select **DRC Off** (Decrease the DRC range) or **DRC On** (Reset the DRC range to original values).
3. Press the **enter** button.
4. Press the **exit** button to resume normal playback.



MP3 Files Operation

MP3 File Playback Options

1. When inserted, the MP3 menu screen appears automatically depending on the MP3 disc's folder (directory) structure as shown to the right.
2. Use the ▲ / ▼ to find desired folder and then press the **enter** button.
3. Use the ▲ / ▼ button to find the desired MP3 title and then press the **enter** or **play/pause ▶/ II** button.



Stop/Pause Playback

Stop Playback
Press the **stop** button to stop playback.

Pause Playback
1. Press the **play/pause ▶/ II** button during playback.
2. Press the **play/pause ▶/ II** button again to return to normal playback.

3D Sound

- Take advantage of any multichannel format from just two speakers without the need to add extra speakers or equipment

1. Press the **3D sound** button during playback.
2. Each press of the **3D sound** button changes the sound option as indicated below:
   : Off → Concert → Living room → Hall → Bathroom → Arena.

Repeat playback

- You can play a specific track repeatedly.

1. Press the **repeat** button during playback.
   Each time you press the **repeat** button, the repeat mode changes in the following order:
   : Random → Track → Repeat Track → Repeat Directory → Off

A-B repeat playback

- A-B repeat playback allows you to repeat material between two selected points.

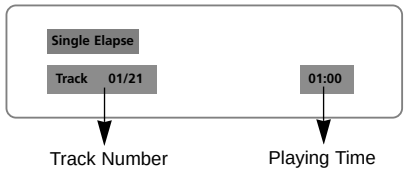
1. Press the **a-b** button to select the start point during playback. " A" is displayed on TV screen and the starting point of your selected segment is set up.
2. Press the **a-b** button again to select the end point. " AB" is displayed on TV screen and the ending point is set up.
   Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
3. Repeatedly press the **a-b** button until "**Off**" appears on the screen to resume normal playback.

Audio CD Operation

OSD (On-Screen Display)

- You can display the Track, and Playback time status on the TV screen.

1. Press the **enter** button during DVD playback. Track information appear on screen. Each time you press the **enter** button, the OSD changes as follows: Single Elapsed → Single Remain → Total Elapsed → Total Remain



Stop Playback

1. Press the **stop** button to stop playback. At this time the CD player stops playback temporarily and maintains the current playback position.
2. Press the **stop** button again to stop playback fully. (At this time if you press the **play/pause ▶/ II** button, disc playback starts from the beginning.)

Pause Playback (Still mode)

1. Press the **play/pause ▶/ II** button during playback.
2. Press the **play/pause ▶/ II** button again to return to normal playback.

Fast Forward/Backward

1. Press the **scan ▶▶** or **◀◀ scan** button during playback. Each time you press **scan ▶▶** or **◀◀ scan** button, the playback speed changes as shown.
   - **scan ▶▶**: ▶▶ 2x → ▶▶ 4x → ▶▶ 8x → ▶▶ 16x → ▶▶ 32x.
   - **◀◀ scan**: ◀◀ 2x → ◀◀ 4x → ◀◀ 8x → ◀◀ 16x → ◀◀ 32x.
2. Press the **play/pause ▶/ II** button to resume normal playback.

Repeat playback

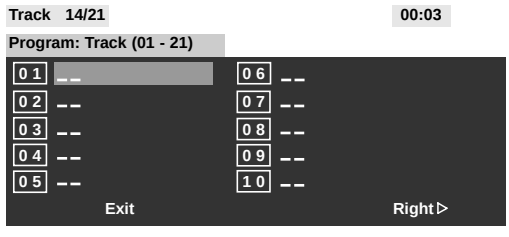
- You can play a specific track repeatedly.

1. Press the **repeat** button during playback. Each time you press the **repeat** button, the repeat mode changes as indicated: Track → ALL → Random → Repeat Off

Programmed playback

- You can arrange the playback order of tracks on the disc.

1. Press the **program** button in the stop mode or during playback.
2. Use the **▲ / ▼** button to select the program position.
3. Use the number buttons to select the desired Track numbers. To program others, repeat Steps 2 and 3.
4. Press the **program** button to resume normal playback.



3D Sound

- Take advantage of any multichannel format from just two speakers without the need to add extra speakers or equipment

1. Press the **3D sound** button during playback.
2. Each press of the **3D sound** button changes the sound mode as indicated: Off, Concert, Living room, Hall, Bathroom, or Arena.

Skip Tracks

1. Use the **skip ▶▶I** or **I◀◀ skip** button to locate a desired track during playback. Each time you press the button, the unit skips to the next/previous track.

A-B repeat playback

- A-B repeat playback allows you to repeat material between two selected points.

1. Press the **a-b** button to select the start point during playback. " A" is displayed on TV screen and the starting point of your selected segment is set up.
2. Press the **a-b** button again to select the end point. " AB" is displayed on TV screen and the ending point is set up.
   Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
3. Repeatedly press the **a-b** button again to resume normal playback.
   "**Off**" appears on the screen.

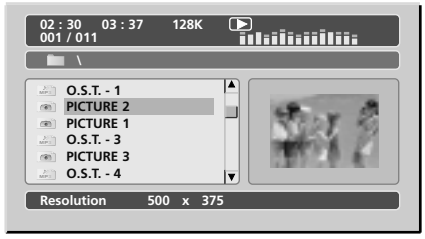
JPEG File Viewing Options

- As a JPEG file is loaded, the table of contents appears on the TV screen.
  16 slide show transition modes are available.

Picture Selection

1. Use the ▲ / ▼ button to select the desired picture. The selected JPEG file appears on the right side of the screen.
2. Press the **enter** or **play/pause ►/II** button to enlarge the JPEG file to fill the screen.
3. Press the **play/pause ►/ II** button again to start slide show mode.
   Press the **stop** button to return to the menu.

Note: If you press the **enter** or **play/pause ►/II** button while playing an MP3 disc, the picture slide show starts.



Picture transition modes

1. Use **program** button to change the slide show transition mode as shown below:

   Wipe Top → Wipe Bottom → Wipe Left → Wipe Right → Diagonal Wipe Left Top → Diagonal Wipe Right Top → Diagonal Wipe Left Bottom → Diagonal Wipe Right Bottom → Extend From Center H → Extend From Center V → Compress To Center H → Compress To Center V → Window H → Window V → Wipe From Edge To Center → Move in From Top → None

Image Rotation

Use the ▲ / ▼ button to rotate a picture. There are 2 modes to rotate picture:
• ▲ button: invert.
• ▼ button: mirror

Image Zoom

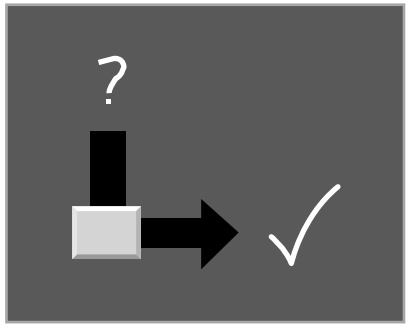
1. Press the **zoom** button and use the **scan ►►** or **◄◄ scan** button to see the zoom mode at 50% ~ 200%.
2. Adjust the picture position using the ▲ / ▼ / ◄ / ► buttons while in the enlarged picture mode.
   To exit Zoom mode, press the **zoom** button one more time.
3. Press the **stop** button to return to the menu.

Repeat playback

- You can show JPEG files repeatedly.

1. Press the **repeat** button during playback. Each time you press the **repeat** button, the repeat mode changes as indicated: Random → Repeat One → Repeat All → Repeat Off
   If you play play MP3 and JPEG slide show simultaneously, repeat function is applied either a MP3 and JPEG file.

Troubleshooting Checklist



SYMPTOMS

No power

No picture or sound

Poor picture but good sound

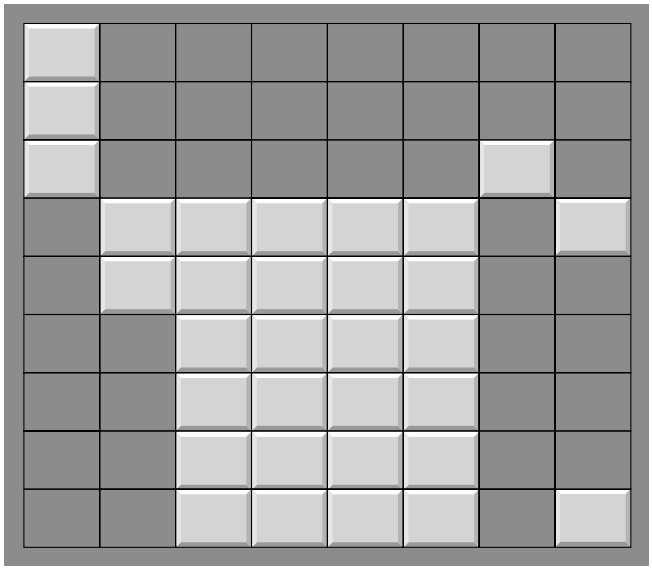
Poor reception

Lines in picture

Ghosts (multiple images)

Remote control does not work.

Cannot tune desired channel.



CHECK THESE THINGS

→ Is power cord plugged in ?

→ Is television turned on ?

→ Check batteries in remote control.

→ Try another channel (station trouble).

→ Check antenna connectings.

→ Check for local interference.

→ Adjust the antenna.

→ Adjust the picture control.

→ Program channel using EZ Scan.

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
Please be sure not to use a wet cloth.

Extended Absence

If you intend to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specifications

MODEL	L17W36DVD
Power Requirements*	DC15V/4.5A
Adapter (AC to DC Power)	In: AC 100-240V ~ 1.6A-0.7A, 50/60Hz Out: DC 15V, 4.5A * For use only with Model No. SAD7015SE AC Adapter, manufactured by H & E CO., LTD.
Television System	NTSC
Television Channels	VHF: 2 ~ 13, UHF: 14 ~ 69, Cable: 01 ~ 125
Television Screen	LCD Panel
External Antenna Impedance	75 Ω
Audio Output	3 W + 3 W

Notes

ZENITH ELECTRONICS CORPORATION
LCD-TV L17W36DVD LIMITED WARRANTY – USA

Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original purchase of the product. This limited warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	**HOW SERVICE IS HANDLED:**
LABOR: 1 Year from the Date of Purchase. **PARTS: 1 Year** from the Date of Purchase. * Repaired or replaced products are warranted for the remaining portion of the original warranty period.	**Factory Service. Call 1-877-9Zenith (1-877-993-6484)** (24 hours a day, 365 days per year) for instructions on getting the defective unit repaired or replaced. **Please retain dated sales receipt and your box** to return the unit to Zenith for replacement. Shipping charges both ways will be paid by Zenith during the Warranty Period. Visit our website at **http://www.zenithservice.com**

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Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, signal reception or input, operating and software protocols adopted after date of manufacture or for outside the US, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTERACTIVE CENTER NUMBERS:

For Where to buy, Product Assistance, or Customer Assistance	**Call 1-877-9Zenith (1-877-993-6484) (24 hours a day, 365 days per year) and select appropriate options from the menu.** **Or visit our website at http://www.zenithservice.com**

ZENITH ELECTRONICS CORPORATION
2000 MILLBROOK DRIVE
LINCOLNSHIRE, IL 60069

206-3965
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